

ABSTRACT

The invention provides a smart sensor in the form of an adhesive bandage. The sensor may be used in many applications such as within sports, the shipping industry and medical and health industries. The sensor sticks to people and objects and wirelessly communicates with remote receivers. Internal detectors sense conditions associated with movement and/or the environment of the sensor. In one example, an accelerometer detects impact and drop distance of a package in transit; the sensor is either within a label or attached to a product within the package. The sensor may also prevent theft and assist in tracking package disposition so as to reduce lost packages. The sensors of the invention may also be used in fitness and health, such as to monitor body functions of heart rate and respiration; these sensors also may initiate immediate wireless warnings for improper functions so that persons may obtain immediate assistance. Sensors of the invention are also useful for sports media broadcasts; multiple sensors may attach to athletes so that wireless performance data is made available, in near real time, to audiences and media observers. Data from sensors of the invention may also change the computer gaming community; that is, certain sensors tracking real performance data may relay information used within gaming so as to govern computer gaming motions. Typically, sensors of the invention communicate by an RF transmitter or transceiver. Groups of sensors may be combined within a common canister that imparts date and time information and "power on" when dispensed.